instructions

FOR THE

HEATHKIT®

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE OUTLET BOX TO RAIN OR MOISTURE.

OUTLET BOX

MODEL HD-1274

INTRODUCTION

The Heathkit Model HD-1274 Outlet Box is a handy addition for your workbench and also has many other uses. This Outlet Box contains eleven switched outlets and one unswitched outlet. This allows you to connect a clock or similar device to the Outlet Box which you do not want to turn on and off with the other outlets.

PARTS LIST

Unpack the kit and check each part against the following list.

To order a replacement part, always include the PART NUMBER. Use the Parts Order Form furnished with this kit. For prices, refer to the separate "Heath Parts Price List."

HEATH Part No.	QTY.	DESCRIPTION
60-619	1	Rocker switch
75-723	1	Strain relief
89-15	1	Line cord
200-1353-1	1	Chassis (with square holes)
200-1354-1	1	Bottom cover
250-155	10	#6 × 3/8" black sheet metal screw
250-441	4	#6 × 3/8" flat head sheet metal screw
250-116	2	6-32 × 1/4" black screw
252-3	2	6-32 nut
259-1	2	#6 solder lug
340-9	4-1/2'	Bare wire
346-30	2"	Black sleeving

HEATH Part No.	QTY.	DESCRIPTION
390-1547	1	Caution label
391-34	1	Blue and white label
421-53	1	10-ampere, 3AG, fuse
423-11	1	Fuseholder
434-148	12	AC socket
597-260	1	Parts Order Form
597-308	1	Kit Builders, Guide
	1	Instruction Booklet (See Page 1 for part number.)
		Solder

Printed in U.S.A.

595-2275-01

STEP-BY-STEP ASSEMBLY

Before you start to assemble this kit, read the wiring and soldering information in the "Kit Builders Guide."

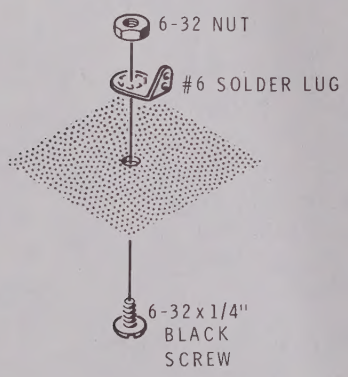
PARTS MOUNTING

Refer to Pictorial 1 (fold-in) for the following steps.

( ) Position the chassis as shown in the Pictorial.

( ) Scrape or sand any excess paint from around holes A and B on the inside of the chassis.

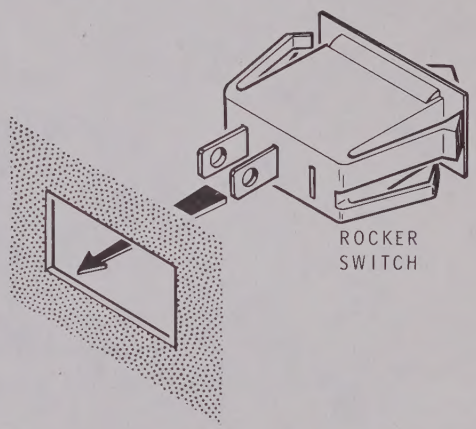
( ) Refer to Detail 1A and mount a #6 solder lug to the chassis at A. Use a 6-32 × 1/4" black screw and a 6-32 nut. Be sure to position the solder lug as shown in the Pictorial.



Detail 1A

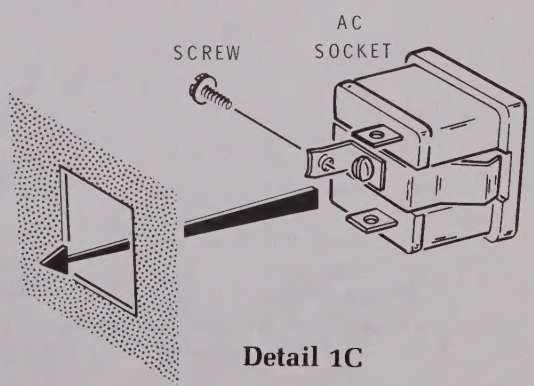
( ) Similarly, mount a #6 solder lug to the chassis at B. Be sure to position the solder lug as shown in the Pictorial.

( ) Refer to Detail 1B and install the rocker switch in hole C of the chassis. Be sure to install the switch so the lugs are positioned as shown in the Pictorial. Push the switch into the chassis hole until it locks in place.



Detail 1B

( ) Refer to Detail 1C and remove (and discard) the screw from an AC socket. Then install the socket in the chassis at D. Be sure to position the socket as shown in the Pictorial. Push the socket into the chassis hole until it locks in place.



Detail 1C

( ) Similarly remove the screw from the remaining AC sockets. Then install these sockets in the remaining square holes in the chassis. Be sure to position each socket as shown in the Pictorial.

WIRING

Refer to Pictorial 2 (fold-in) for the following steps.

( ) Cut ten 1-1/2" bare wires. Use these wires in the following steps.

NOTES:

1. Be sure to make a mechanically secure connection when you connect a wire to a lug (see the inset drawing on the Pictorial).

2. In the following steps, (NS) means not to solder because you will add other wires later. "S-" with a number, such as (S-2), means to solder the connection. The number following the "S" tells you how many wires are at the connection. This helps you check your work for wiring errors as you assemble the kit.

Connect 1-1/2" bare wires between the lugs of the AC sockets as follows:

( ) Socket D lug 1 (NS) to socket E lug 1 (NS).

( ) Socket E lug 1 (S-2) to socket F lug 1 (NS).

( ) Socket F lug 1 (S-2) to socket G lug 1 (NS).

( ) Socket G lug 1 (S-2) to socket H lug 1 (NS).

( ) Socket H lug 1 (S-2) to socket J lug 1 (NS).

( ) Socket J lug 1 (S-2) to socket K lug 1 (NS).

( ) Socket K lug 1 (S-2) to socket L lug 1 (NS).

( ) Socket L lug 1 (S-2) to socket M lug 1 (NS).

( ) Socket M lug 1 (S-2) to socket N lug 1 (NS).

( ) Socket N lug 1 (S-2) to socket P lug 1 (S-1).

( ) Cut eleven 1-1/2" bare wires. Use these wires in the following steps.

Connect 1-1/2" bare wires between the lugs of the AC sockets as follows:

( ) Socket D lug 3 (S-1) to socket E lug 3 (NS).

( ) Socket E lug 3 (S-2) to socket F lug 3 (NS).

( ) Socket F lug 3 (S-2) to socket G lug 3 (NS).

( ) Socket G lug 3 (S-2) to socket H lug 3 (NS).

( ) Socket H lug 3 (S-2) to socket J lug 3 (NS).

( ) Socket J lug 3 (S-2) to socket K lug 3 (NS).

( ) Socket K lug 3 (S-2) to socket L lug 3 (NS).

( ) Socket L lug 3 (S-2) to socket M lug 3 (NS).

( ) Socket M lug 3 (S-2) to socket N lug 3 (NS).

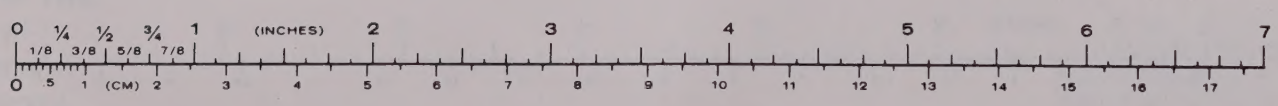
( ) Socket N lug 3 (S-2) to socket P lug 3 (NS).

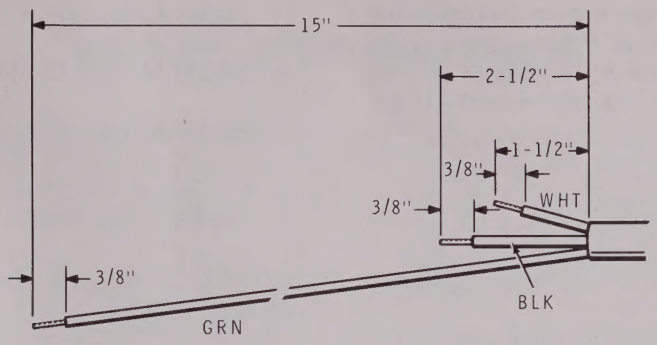
( ) Socket P lug 3 (S-2) to socket Q lug 3 (NS).

( ) Cut a 1-3/4" and a 13" bare wire. Use these wires in the following steps.

( ) Connect a 1-3/4" bare wire from solder lug B (S-1) to AC socket D lug 2 (NS).

( ) Pass a 13" bare wire through lug 2 of each AC socket. Be sure to make mechanically secure connections at sockets D and Q. Then solder the wire to lug 2 of each socket. Be sure both wires on socket D are soldered.





Detail 2A

( ) Refer to Detail 2A and prepare the end of the line cord as follows:

1. Remove the outer insulation of the line cord for a total length of 23-1/2".
2. Cut each line cord lead to the indicated length. NOTE: Save the cutoff black wire for use later.
3. Remove 3/8" of insulation from the end of each lead and twist together the fine strands of wire. Then melt a small amount of solder on the end of each lead to hold the strands together.
4. Set the line cord aside temporarily.

( ) Prepare the following black wires (use the cutoff black line cord wire). Remove 3/8" of insulation from both ends of each wire. Then twist together the fine strands at each end of each wire and melt a small amount of solder on the ends to hold the strands together.

15-1/2"
2-1/2"
3"

( ) Connect a 15-1/2" black wire from switch C lug 1 (S-1) to AC socket Q lug 1 (NS).

( ) Connect a 2-1/2" black wire from switch C lug 2 (S-1) to AC socket D lug 1 (S-2).

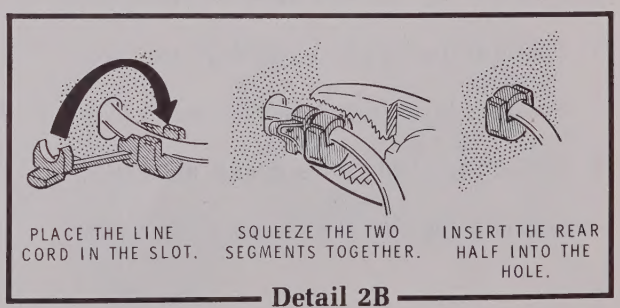
( ) Connect one end of a 3" black wire to AC socket Q lug 1 (S-2). The other end of this wire will be connected later.

( ) Route the end of the line cord through hole R in the chassis. Then connect the green line cord lead to solder lug A (S-1). Be careful not to burn the nearby wires with the soldering iron.

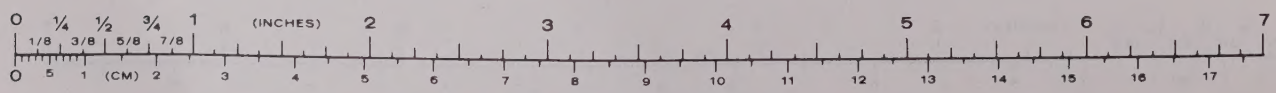
( ) Connect the white line cord lead to AC socket Q lug 3 (S-2).

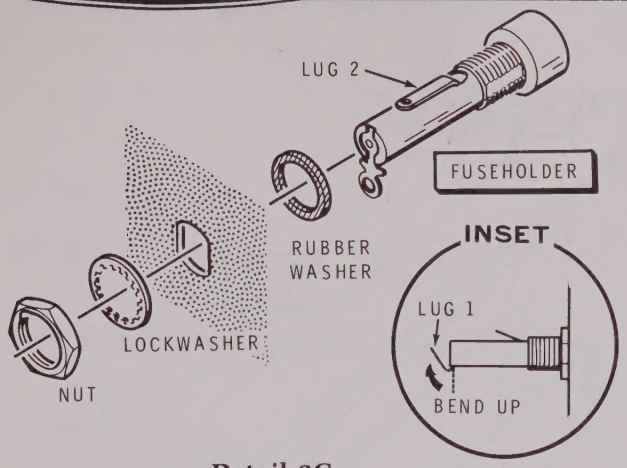
NOTE: The black line cord lead will be connected later.

( ) Refer to Detail 2B and install the strain relief on the line cord at hole R as shown.



Detail 2B





Detail 2C

( ) Refer to Detail 2C and mount the fuseholder in the chassis at hole S. Use the hardware supplied with the fuseholder. Be sure to position the fuseholder as shown in the Pictorial and do not overtighten the nut.

( ) Carefully bend lug 2 of the fuseholder away from the fuseholder body as shown in the Pictorial. Bend the lug only enough so you can connect a wire to it in a later step.

( ) Refer to the inset drawing on Detail 2C and bend lug 1 of the fuseholder up as shown.

( ) Connect the black line cord lead to fuseholder lug 1 (S-1).

( ) Slide a 1-1/2" length of black sleeving over the free end of the black wire coming from AC socket Q. Then connect the wire to fuseholder lug 2 (S-1). When the connection cools, slide the sleeving up onto the fuseholder lug as shown.

( ) Remove the fuseholder cap by twisting it counterclockwise with a screwdriver. Then install a 10-ampere, 3AG fuse and replace the cap. Do not overtighten the cap.

CHECKOUT

( ) Shake out any wire clippings and solder splashes which may be lodged in the wiring.

( ) Check the wiring for the following most commonly made errors:

1. Unsoldered connections.
2. "Poor" solder connections.
3. Wires or solder blobs touching adjacent wires, lugs, or the chassis.

NOTE: A wiring error in your kit could cause you to receive a severe electrical shock. The following checks will assure you that no such wiring errors exist.

( ) Be sure the line cord is not plugged in.

If you do not have an ohmmeter, carefully check the wiring against that shown in Pictorial 2.

If you have an ohmmeter, perform the following resistance measurements:

( ) Set the ohmmeter to the R × 1 position.

( ) Connect the black ohmmeter lead to solder lug B.

( ) Connect the red ohmmeter lead first to one flat prong and then the other flat prong of the line cord. The ohmmeter should indicate infinity (∞) with the Outlet Box switch On or Off.

( ) Connect the red ohmmeter lead to the round prong of the line cord plug. The ohmmeter should indicate 0 ohms with the Outlet Box switch On or Off.

( ) Connect the black ohmmeter lead to either flat prong of the line cord plug. Connect the red ohmmeter lead to the other flat prong of the line cord plug. The ohmmeter should indicate infinity (∞) with the Outlet Box switch On or Off.

( ) Disconnect the ohmmeter leads from the line cord plug.

FINAL ASSEMBLY

Refer to Pictorial 3 for the following steps.

( ) Position the chassis as shown in the Pictorial.

( ) Bend fuseholder lug 2 down against the fuseholder body. Make sure the lug cannot touch the bottom cover when the cover is installed.

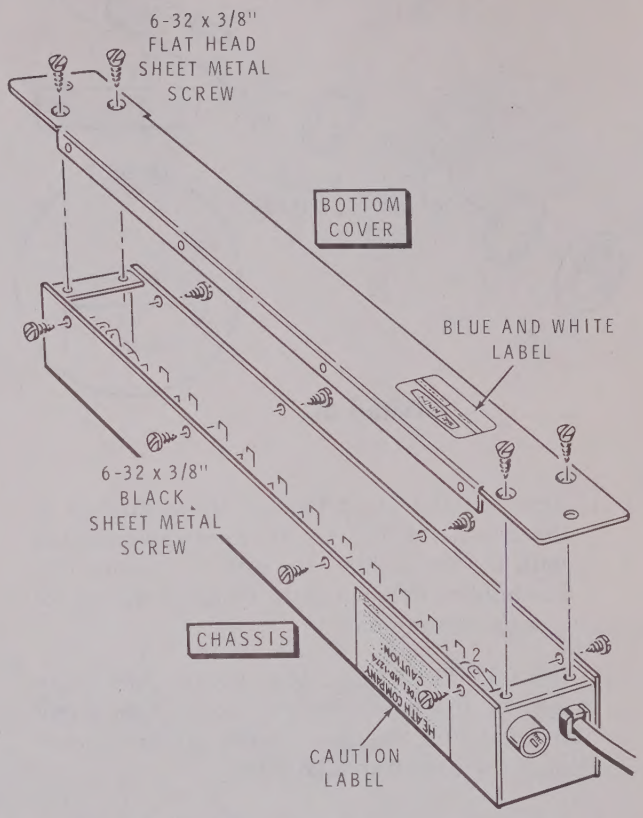
( ) Install the bottom cover on the chassis. Use eight #6 × 3/8" black sheet metal screws to secure the sides of the cover to the chassis. Use four #6 × 3/8" flat head sheet metal screws to secure the bottom of the cover to the chassis.

( ) Carefully peel away the backing paper from the caution label. Then press the label onto the side of the chassis in the area shown. Be sure to install the label so it is right-side-up when the chassis is positioned with the AC sockets facing upward.

( ) Carefully peel away the backing paper from the two "unswitched" labels. Then press the labels onto the top of the chassis on each side of socket Q (the socket nearest the line cord end of the chassis).

NOTE: The blue and white label shows the Model Number and Production Series Number of your kit. Refer to these numbers in any communications you have with the Heath Company about your kit. This assures you that you will receive the most complete and up-to-date information in return.

( ) Carefully peel away the backing paper from the blue and white label. Then press the label onto the bottom cover in the area shown in the Pictorial.



PICTORIAL 3

NOTE: Two extra #6 × 3/8" black sheet metal screws are included in this kit for mounting.

This completes the assembly and checkout of your Outlet Box. The AC socket furthest from the On-Off switch is unaffected by the switch. All other sockets are controlled by the switch.

SPECIFICATIONS

Outlets	12 (eleven switched, one unswitched).
Rating	10 amperes maximum (total for all 12 sockets combined).
Size (excluding mounting tabs)	15-7/8″ long × 2-1/4″ deep × 2-1/4″ high (40.3 × 5.7 × 5.7 cm).
Weight	2 lbs (.9 kg).

The Heath Company reserves the right to discontinue products and to change specifications at any time without incurring any obligation to incorporate new features in products previously sold.

CUSTOMER SERVICE

REPLACEMENT PARTS

Please provide complete information when you request replacements from either the factory or Heath Electronic Centers. Be certain to include the **HEATH** part number exactly as it appears in the parts list.

ORDERING FROM THE FACTORY

Print all of the information requested on the parts order form furnished with this product and mail it to Heath. For telephone orders (parts only) dial 616 982-3571. If you are unable to locate an order form, write us a letter or card including:

- Heath part number.
- Model number.
- Date of purchase.
- Location purchased or invoice number.
- Nature of the defect.
- Your payment or authorization for COD shipment of parts not covered by warranty.

Mail letters to: Heath Company
Benton Harbor
MI 49022
Attn: Parts Replacement

Retain original parts until you receive replacements. Parts that should be returned to the factory will be listed on your packing slip.

OBTAINING REPLACEMENTS FROM HEATH ELECTRONIC CENTERS

For your convenience, "over the counter" replacement parts are available from the Heath Electronic Centers listed in your catalog. Be sure to bring in the original part and purchase invoice when you request a warranty replacement from a Heath Electronic Center.

TECHNICAL CONSULTATION

Need help with your kit? — Self-Service? — Construction? — Operation? — Call or write for assistance. you'll find our Technical Consultants eager to help with just about any technical problem except "customizing" for unique applications.

The effectiveness of our consultation service depends on the information you furnish. Be sure to tell us:

- The Model number and Series number from the blue and white label.
- The date of purchase.
- An exact description of the difficulty.
- Everything you have done in attempting to correct the problem.

Also include switch positions, connections to other units, operating procedures, voltage readings, and any other information you think might be helpful.

Please do not send parts for testing, unless this is specifically requested by our Consultants.

Hints: Telephone traffic is lightest at midweek — please be sure your Manual and notes are on hand when you call.

Heathkit Electronic Center facilities are also available for telephone or "walk-in" personal assistance.

REPAIR SERVICE

Service facilities are available, if they are needed, to repair your completed kit. (Kits that have been modified, soldered with paste flux or acid core solder, cannot be accepted for repair.)

If it is convenient, personally deliver your kit to a Heathkit Electronic Center. For warranty parts replacement, supply a copy of the invoice or sales slip.

If you prefer to ship your kit to the factory, attach a letter containing the following information directly to the unit:

- Your name and address.
- Date of purchase and invoice number.
- Copies of all correspondence relevant to the service of the kit.
- A brief description of the difficulty.
- Authorization to return your kit COD for the service and shipping charges. (This will reduce the possibility of delay.)

Check the equipment to see that all screws and parts are secured. (Do not include any wooden cabinets or color television picture tubes, as these are easily damaged in shipment. Do not include the kit Manual.) Place the equipment in a strong carton with at least THREE INCHES of *resilient* packing material (shredded paper, excelsior, etc.) on all sides. Use additional packing material where there are protrusions (control sticks, large knobs, etc.). If the unit weighs over 15 lbs., place this carton in another one with 3/4" of packing material between the two.

Seal the carton with reinforced gummed tape, tie it with a strong cord, and mark it "Fragile" on at least two sides. Remember, the carrier will not accept liability for shipping damage if the unit is insufficiently packed. Ship by prepaid express, United Parcel Service, or insured Parcel Post to:

Heath Company
Service Department
Benton Harbor, Michigan 49022

YOUR HEATHKIT 90 DAY LIMITED WARRANTY

If you are not satisfied with our service - warranty or otherwise - or with our products, write directly to our Director of Customer Services, Heath Company, Benton Harbor, Michigan 49022. He will make certain your problems receive immediate, personal attention.

Our attorney, who happens to be quite a kitbuilder himself, insists that we describe our warranty using all the necessary legal phrases in order to comply with the new warranty regulations. Fine. Here they are:

For a period of ninety (90) days after purchase, Heath Company will replace or repair free of charge any parts that are defective either in materials or workmanship. You can obtain parts directly from Heath Company by writing us at the address below or by telephoning us at (616) 982-3571. And we'll pay shipping charges to get those parts to you — anywhere in the world.

We warrant that during the first ninety (90) days after purchase, our products, when correctly assembled, calibrated, adjusted and used in accordance with our printed instructions, will meet published specifications.

If a defective part or error in design has caused your Heathkit product to malfunction during the warranty period through no fault of yours, we will service it free upon proof of purchase and delivery at your expense to the Heath factory, any Heathkit Electronic Center (units of Schlumberger Products Corporation), or any of our authorized overseas distributors.

You will receive free consultation on any problem you might encounter in the assembly or use of your Heathkit product. Just drop us a line or give us a call. Sorry, we cannot accept collect calls.

Our warranty does not cover and we are not responsible for damage caused by the use of corrosive solder, defective tools, incorrect assembly, misuse, fire, or by unauthorized modifications to or uses of our products for purposes other than as advertised. Our warranty does not include reimbursement for customer assembly or set-up time.

This warranty covers only Heathkit products and is not extended to allied equipment or components used in conjunction with our products. **We are not responsible for incidental or consequential damages.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

HEATH COMPANY
BENTON HARBOR, MI. 49022

Prices and specifications subject to change without notice.

MP MASTER
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